

## MEMORANDUM

<b>DATE:</b>	May 23 <sup>rd</sup> , 2016
<b>FROM:</b>	Eric Lancaster
<b>SUBJECT:</b>	Weekly Progress Report @ Gold King
<b>TO:</b>	Kerry Guy

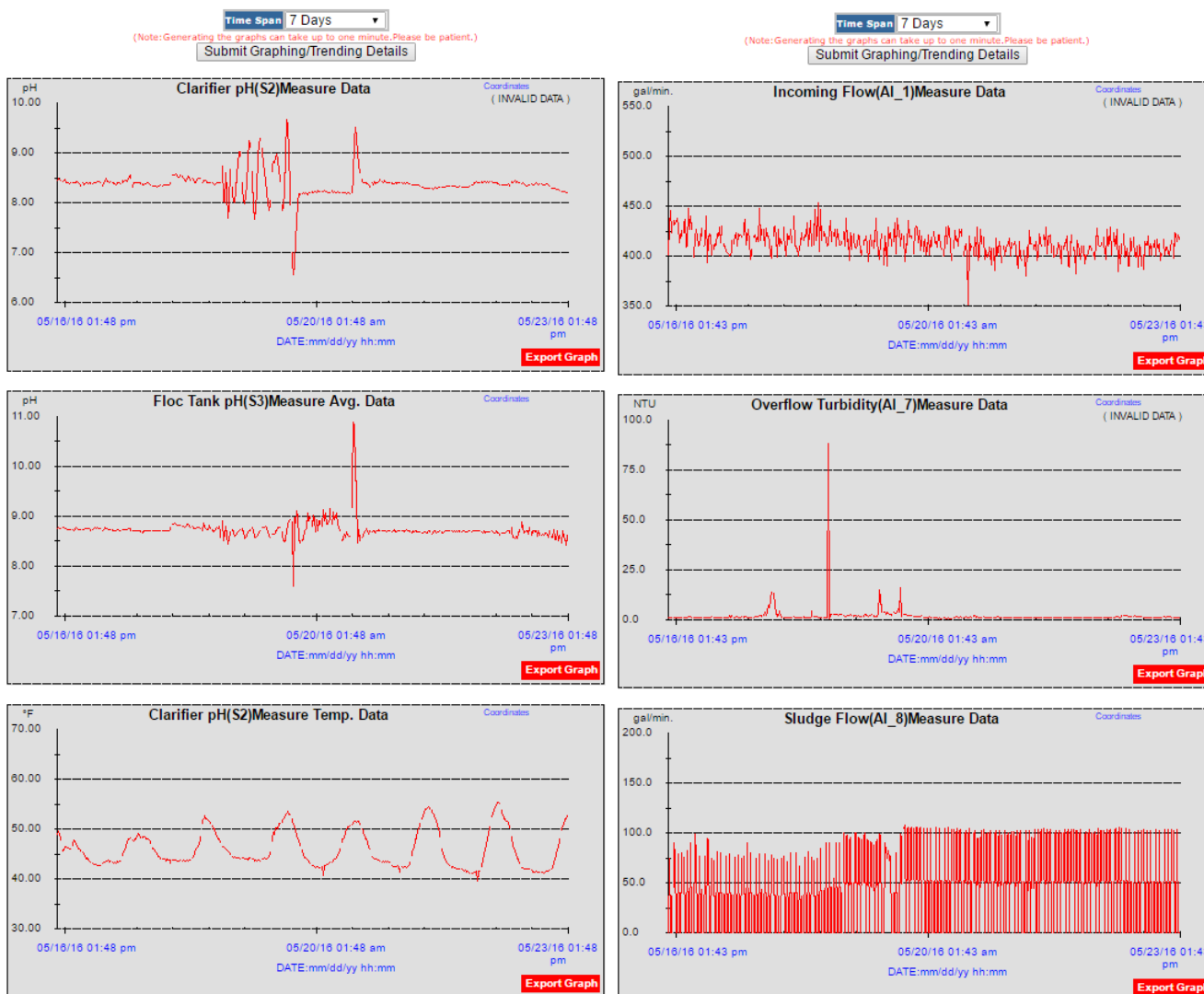
**Project:** Gold King Interim Water Treatment Plant (IWTP)  
**Location:** Gladstone, Colorado  
**Prepared for:** Emergency Response Unit – US EPA Region 8

**Reporting Period:** May 16 – May 23  
**Report No.:** 22

### I. General Operations Summary:

#### IWTS Function/Upsets

- The following graphs provide trending information during the previous 7 days. The dataloggers collect control information from the Lime Circuit (left) and Flow Circuit (right) Programmable Logic Controllers (PLCs) at the Gold King IWTP. Over the reporting period (5/16/16 – 5/23/16 inclusive) Alexco treated 4.27 million gallons at an average flow rate of 424 gpm with all discharged treated water leaving the 12" HDPE pipeline.



- Please note: Several days each week, the Alexco operators check the pH at both the floc tank and clarifier discharge. During this time, the probe is placed in vinegar (acid), and three pH buffers – 4, 7, and 10. While the probe is in the acid/buffer, the datalogger may captured one of those points for tracking purposes, which explains the occasional pH spikes seen on the graph. In addition, instantaneous spikes of the Overflow Turbidity Meter are associated with routine cleaning, which can cause the meter to spike temporarily up to 100 NTUs.
- On 5/20, the IWTP operator shut-off flow to the plant while filling the vertical silo from the horizontal pig.

#### **Communication System Function Status**

- No issues – reliable operations during the reporting period.

#### **Facility or System Related Work, including Repairs & Completions**

- No repairs or completions during this time.

### **II. Identified Problems, Causes, and Solutions (Planned or Implemented)**

- **Spring Melt Contingency Updates:**
  - **Additional Bags** – Alexco has additional textile bags (two 125' x 45 and six 45' x 22.5') located at site that can be installed and connected to the sludge manifold as needed.
  - **Sludge Removal from Upper Ponds** – Alexco plans to work with ER to remove solids from the Upper Ponds within the next few weeks.

### **III. System Inspections – Specific elements inspected and finding**

- N/A

### **IV. Site Status**

#### **Personnel and equipment onsite**

- Alexco currently employs one full-time employee (FTE) who lives in Silverton and oversees all operations at the Gold King IWTP. He is supported by remote operators in Denver, and local sub-contractors as needed.

## Weather conditions

- Weather Underground Report for Silverton, CO (5/23/2016 – 6/01/2016)

### 10-Day Weather Forecast

